

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P648527

Luminaire Tested: **GALN-SA7B-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23149.4 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

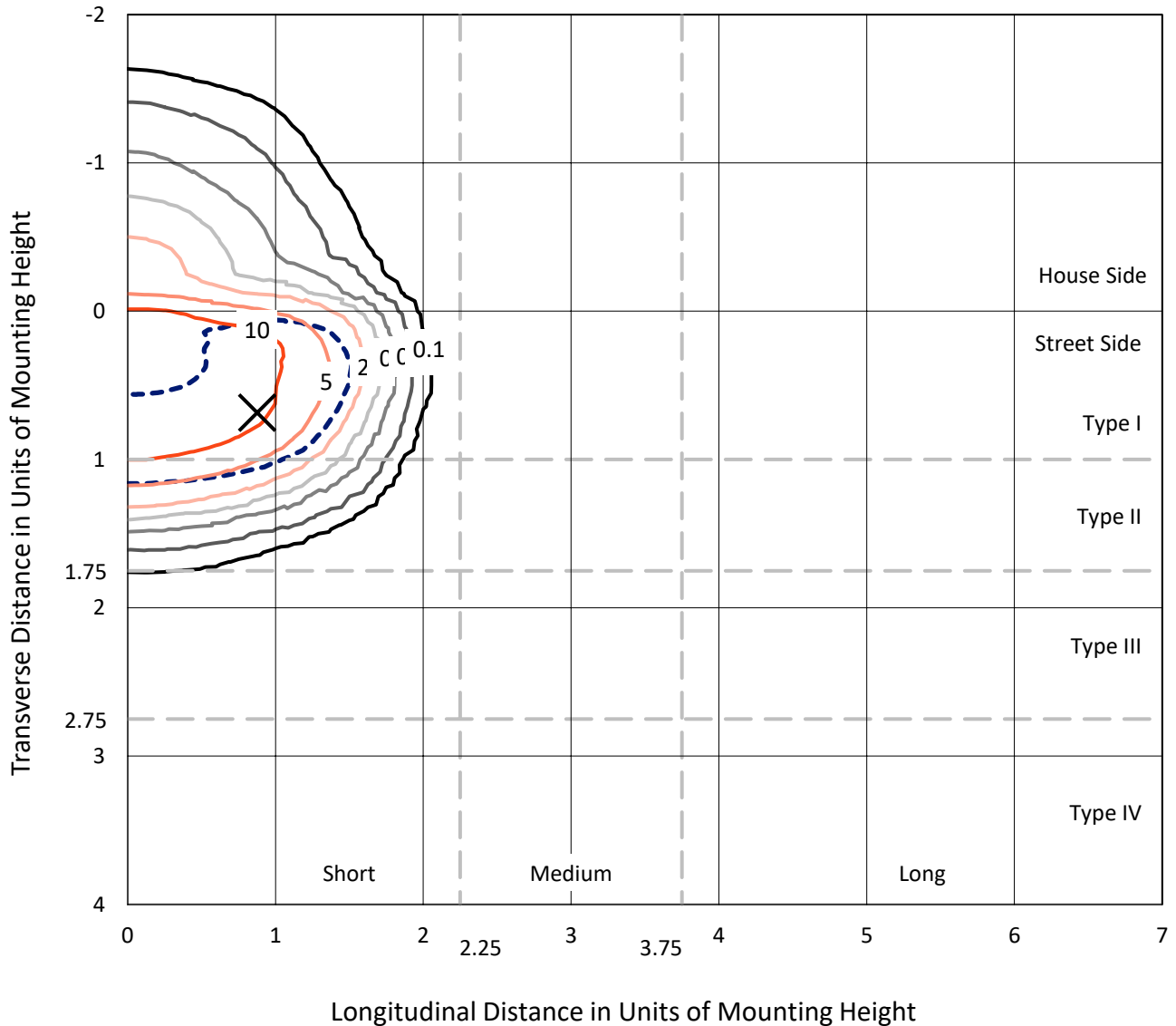
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

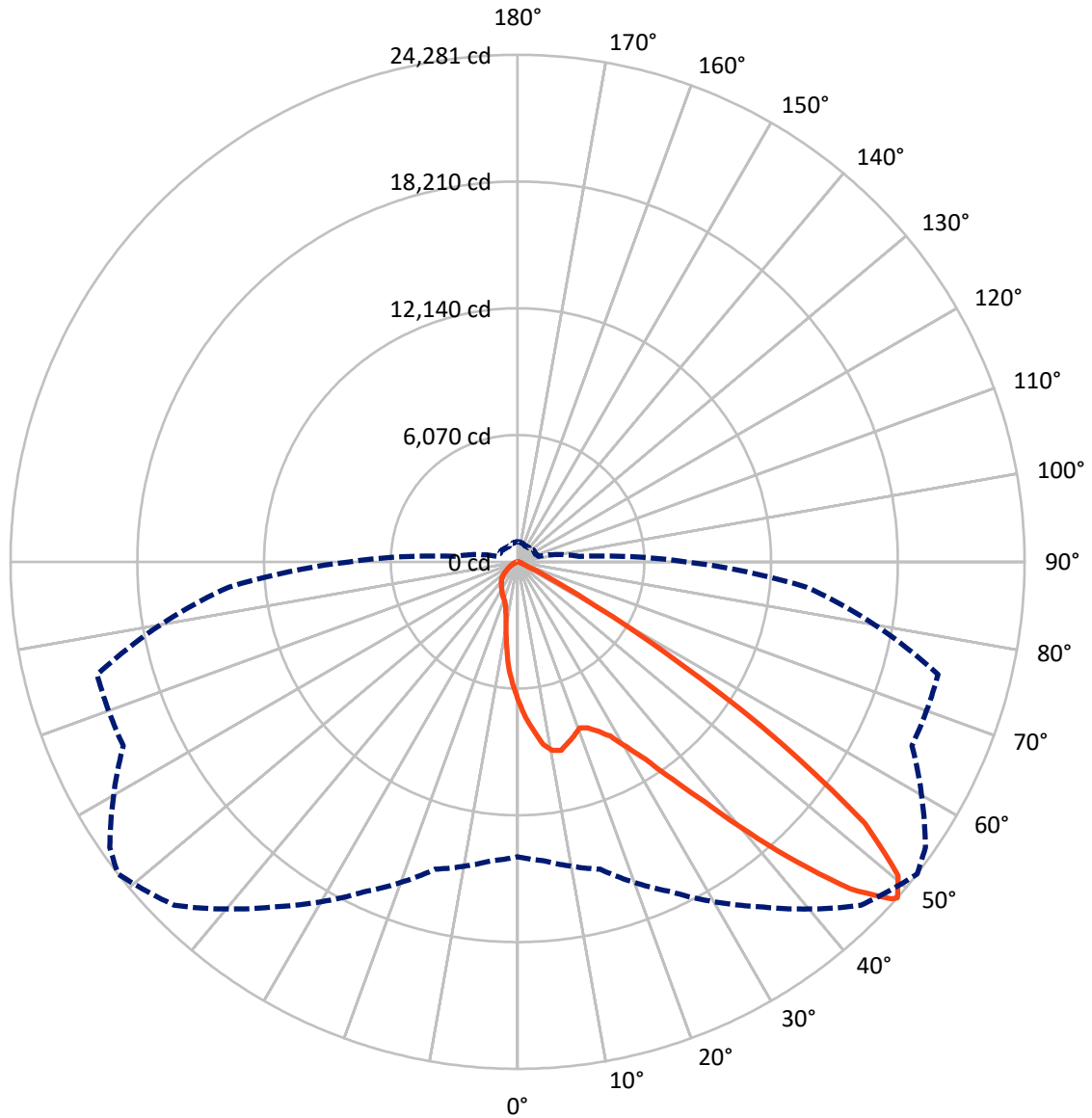
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2818.6	0.0	2818.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20330.8	0.0	20330.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	23149.4	0.0	23149.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.9	2.6
10°-20°	1599.1	6.9
20°-30°	2730.3	11.8
30°-40°	5027.8	21.7
40°-50°	7808.2	33.7
50°-60°	4699.2	20.3
60°-70°	543.5	2.3
70°-80°	105.2	0.5
80°-90°	24.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23149.4	100.0
0°-180°	23149.4	100.0

Coefficient of Utilization

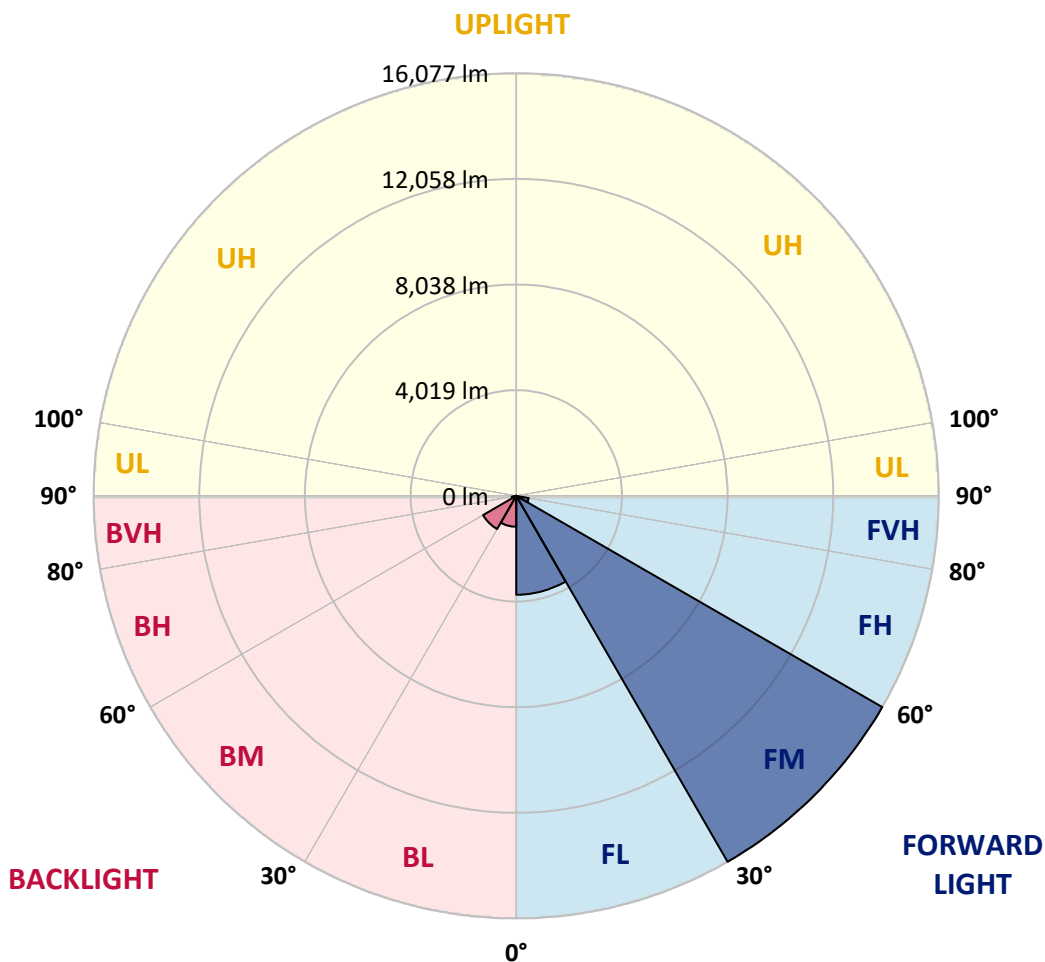


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.8	16.3			
FM (30°-60°)	16076.8	69.4			
FH (60°-80°)	478.6	2.1			G0/660
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1177.4	5.1	B3/2500		
BM (30°-60°)	1458.3	6.3	B2/2500		
BH (60°-80°)	170.1	0.7	B1/500		G1/500
BVH (80°-90°)	12.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2
2.5°	8102.5	7916.9	7933.7	7812.3	7741.4	7626.7	7471.5	7441.1	7272.3	7042.9	6810.0
5°	8831.5	8787.5	8844.9	8669.5	8676.2	8487.3	8122.8	8129.5	7741.4	7366.9	7005.7
7.5°	8878.7	8777.4	8834.8	8990.0	9081.2	9047.4	8841.6	8662.7	8294.9	7744.8	7218.3
10°	7950.7	8143.0	8203.7	8460.2	8824.6	9209.4	9185.8	9195.9	8888.8	8170.0	7400.6
12.5°	7393.9	7265.6	7471.5	7626.7	8176.7	8922.5	9263.4	9337.7	9361.2	8581.7	7582.8
15°	7140.7	7140.7	7174.5	7218.3	7616.6	8305.0	9000.2	9216.1	9725.7	9121.6	7869.7
17.5°	7299.4	7292.6	7339.8	7248.7	7397.2	7927.0	8757.2	9003.6	10134.1	9651.5	8095.8
20°	7781.9	7805.6	7775.2	7511.9	7522.0	7920.3	8487.3	8875.3	10410.8	10110.4	8396.1
22.5°	8453.5	8467.0	8294.9	8008.1	7923.6	8119.4	8642.4	8939.4	10633.5	10660.5	8487.3
25°	9229.6	9175.7	9141.9	8736.9	8480.4	8649.2	8993.4	9165.5	10771.9	11132.9	8747.0
27.5°	10306.2	10198.2	9992.3	9631.2	9442.3	9202.7	9449.0	9732.5	11166.7	11794.3	9030.6
30°	11895.6	11801.1	11399.5	10933.8	10437.8	10201.6	10279.1	10434.4	11878.7	12560.4	9405.1
32.5°	14288.3	14089.1	13508.7	12621.2	11946.2	11294.9	11274.7	11440.0	12516.6	13620.1	9850.6
35°	16923.8	16863.1	16009.3	15094.8	13788.8	12783.1	12800.0	12887.7	13738.1	15010.4	10434.4
37.5°	18675.3	19009.4	18466.0	17484.0	16387.3	14949.7	14585.2	14615.6	15415.4	16657.2	11487.2
40°	20028.5	19745.0	19809.1	19579.6	18830.5	17851.9	17045.3	16886.7	17355.7	18479.5	12533.4
42.5°	19437.9	19451.4	19846.2	20389.6	20575.2	20504.3	19680.9	19380.6	19016.1	19971.1	13528.9
45°	17770.9	18118.5	18631.4	20069.0	21331.1	22515.6	22353.6	21854.2	20163.5	21152.3	14102.6
47.5°	15111.7	15098.1	15938.4	17808.0	20612.3	23386.3	24122.0	23770.9	20976.7	21020.7	13984.5
48°	14129.6	14372.6	15239.8	17440.2	20156.7	23258.0	24280.5	23838.4	20838.4	20845.2	13883.3
50°	10444.5	10400.7	11480.5	14180.2	18003.7	21854.2	23612.4	23956.6	20835.0	19957.7	13174.6
52.5°	5517.6	5706.5	6492.8	8915.8	12729.2	17885.6	20828.3	21364.9	20099.4	18506.5	12155.4
55°	2345.4	2119.3	2723.4	4026.0	7161.0	11949.6	15280.4	16475.0	16994.7	16377.1	10633.5
57.5°	836.9	914.5	1052.9	1515.2	3010.2	6540.1	9111.5	10039.5	11774.1	12017.1	7245.3
60°	536.6	546.7	590.5	695.1	1130.5	2520.9	4322.9	5061.9	5848.2	6037.2	3381.4
62.5°	415.1	418.4	438.7	455.5	536.6	978.7	1623.2	1923.5	1997.8	1717.7	887.5
65°	347.6	350.9	357.7	357.7	381.3	458.9	567.0	624.3	607.5	600.7	502.8
67.5°	266.6	273.3	286.8	286.8	300.4	280.1	313.8	334.1	378.0	458.9	428.6
70°	209.2	212.6	222.8	229.5	229.5	202.5	226.1	246.3	276.7	340.8	337.5
72.5°	162.0	168.7	175.5	175.5	165.4	138.4	162.0	178.8	199.1	236.2	229.5
75°	124.9	124.9	128.3	104.6	81.0	70.9	97.9	118.1	148.5	155.3	128.3
77.5°	33.7	37.1	33.7	30.4	33.7	50.6	64.1	74.2	94.5	94.5	84.3
80°	0.0	3.4	10.1	20.3	33.7	47.2	57.4	64.1	74.2	81.0	77.6
82.5°	0.0	3.4	10.1	20.3	30.4	37.1	50.6	54.0	60.8	70.9	70.9
85°	0.0	3.4	6.7	13.5	20.3	23.6	23.6	20.3	20.3	16.8	13.5
87.5°	0.0	0.0	3.4	6.7	6.7	10.1	10.1	10.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2
2.5°	6718.9	6614.3	6455.7	6206.0	5966.4	5811.1	5662.7	5497.3	5406.1	5399.4	5348.8
5°	6799.9	6563.7	6185.7	5757.2	5298.2	4903.4	4505.1	4245.3	4012.5	3884.2	3860.6
7.5°	6843.7	6536.6	5925.9	5207.1	4424.2	3779.6	3334.2	3006.8	2878.5	2784.1	2780.7
10°	6934.9	6489.4	5537.8	4478.1	3509.6	2858.3	2551.2	2402.7	2331.9	2304.9	2264.4
12.5°	7002.4	6401.7	5139.6	3729.0	2773.9	2369.0	2234.0	2200.2	2203.7	2217.1	2200.2
15°	7096.9	6324.1	4603.0	3060.8	2328.5	2132.7	2132.7	2139.5	2186.8	2193.5	2190.1
17.5°	7090.1	6172.2	4049.6	2520.9	2058.5	2031.6	2041.7	2105.8	2136.2	2146.3	2122.6
20°	7171.1	6030.5	3479.3	2153.0	1906.7	1947.2	2014.7	2031.6	2068.7	2075.4	2048.4
22.5°	7147.5	5676.1	2949.4	1862.8	1791.9	1869.6	1937.1	1957.3	1947.2	1926.9	1923.5
25°	7103.6	5372.4	2463.5	1670.5	1707.6	1791.9	1856.0	1818.9	1798.7	1802.1	1805.4
27.5°	7026.0	4987.7	2061.9	1535.5	1592.9	1717.7	1714.3	1700.8	1721.0	1704.2	1721.0
30°	7012.5	4603.0	1731.2	1413.9	1508.4	1599.6	1606.3	1630.0	1653.5	1623.2	1653.5
32.5°	7032.7	4181.1	1495.0	1339.7	1457.9	1461.2	1535.5	1559.1	1542.2	1474.7	1481.4
35°	7188.0	3857.2	1322.9	1299.2	1376.8	1380.2	1451.1	1420.8	1346.4	1306.0	1329.6
37.5°	7515.3	3587.2	1241.8	1262.1	1268.9	1312.7	1316.1	1255.4	1262.1	1258.8	1272.2
40°	7933.7	3381.4	1184.5	1228.4	1221.6	1252.0	1130.5	1164.2	1194.6	1204.7	1211.5
42.5°	8220.6	3232.9	1147.4	1174.3	1160.9	1106.8	1039.4	1073.1	1096.7	1133.9	1140.6
45°	8348.9	3114.8	1103.5	1079.9	1079.9	982.0	955.0	961.8	1015.8	1056.3	1049.5
47.5°	8139.6	3000.1	1025.9	955.0	978.7	897.6	867.3	867.3	924.6	975.3	965.1
48°	8058.6	2952.8	1029.3	928.0	944.9	884.2	853.8	847.0	911.2	958.4	958.4
50°	7657.0	2777.3	941.6	853.8	820.0	813.3	793.0	799.8	840.3	884.2	884.2
52.5°	6874.1	2399.3	796.4	732.3	671.6	712.1	722.2	708.7	728.9	769.5	766.0
55°	5736.9	1842.6	637.8	607.5	560.2	604.1	624.3	607.5	587.2	617.6	617.6
57.5°	3675.0	992.1	509.6	516.3	469.1	512.9	529.9	489.3	452.2	475.8	472.5
60°	1657.0	593.9	418.4	408.3	378.0	428.6	455.5	408.3	357.7	374.6	391.4
62.5°	620.9	421.8	317.2	310.5	303.7	350.9	364.5	327.4	276.7	286.8	290.3
65°	455.5	371.2	253.1	229.5	243.0	276.7	270.0	232.9	199.1	199.1	205.9
67.5°	388.1	323.9	205.9	178.8	178.8	182.2	168.7	148.5	138.4	145.1	151.8
70°	303.7	256.5	162.0	138.4	124.9	111.3	97.9	94.5	84.3	94.5	91.1
72.5°	195.8	172.1	124.9	104.6	94.5	77.6	64.1	60.8	50.6	47.2	47.2
75°	104.6	104.6	97.9	84.3	74.2	60.8	50.6	40.5	27.0	20.3	20.3
77.5°	74.2	81.0	87.8	81.0	67.5	50.6	40.5	27.0	13.5	6.7	6.7
80°	70.9	81.0	87.8	77.6	67.5	50.6	37.1	20.3	10.1	3.4	3.4
82.5°	64.1	74.2	81.0	70.9	60.8	43.8	33.7	20.3	10.1	3.4	3.4
85°	13.5	16.8	20.3	20.3	23.6	30.4	23.6	16.8	6.7	3.4	3.4
87.5°	10.1	10.1	10.1	10.1	10.1	10.1	6.7	6.7	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)